$\ \, \boxed{20} \ \, \boxed{ \ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\ \, |\$

$$\max\{m\,n\} = \max\{f(x), g(x)\}$$

a

a

$$a = 1$$

$$4002019 \cdot 0000 \cdot 000000000 f(x) = (x-a) \ln x - x + \frac{3}{2}a$$
.

$$\lim_{x \to 0} \frac{1}{2} \sqrt{e} \le a \le 2e^{\frac{2}{3}} \lim_{x \to 0} f(x) \lim_{x \to 0} \min\{f(x)\} = 0 \le \min\{f(x)\} \le \frac{e\sqrt{e}}{2}.$$

 $\square 3 \square \min\{m,n\} \square \square_{M} \square_{M}$

 $\verb"01000"\,F^{(\ X)}\>\verb"000"\,(^{\ 1},2)\>\>\verb"0000000000$

200 F(x) = (1,2) =

 $X_1 + X_2 - 2X_0 - 0 = 0 = 0 = 0 = 0 = 0$.

 $g(x) = f(x) - ax(a \in R)$

 $00000000 \, M(x) = n(n \in R)_{000} \, (1, +\infty)_{000000000000} \, X_0 \, X_2 \, (X_1 < X_2)_{00000} \, X_1 + X_2 > 2 X_0 \, .$

$$0 = f(x) + ax^2 - (a+2)x(a>0) = 0$$

 $20000 F(x) = f(x) - \frac{x}{e^x} \log_{10}(1, 2) \log_{10}(1, 2) = \min \left\{ f(x), \frac{x}{e^x} \right\} \log_{10}(x) = n(x) = n(x$

$$X_1, X_2(X_1 < X_2)$$

$$X_1 + X_2 > 2X_0$$

$11 \textcolor{red}{\square} 2020 \cdot \textcolor{red}{\square} \textcolor{red}{\square} \textcolor{blue}{\square} \textcolor{blue}{\square}$

0000 ^{f(x)} 0000 [a,b]

$$f_1(x) = \min\{f(t) \mid a \le t \le x\} (x \in [a, b])$$

$$f_2(x) = \max\{f(t) \mid a \le t \le x\} (x \in [a, b])$$

$$\lim_{\Omega \to 0} f(\mathbf{X}) = \cos \mathbf{X} \quad \mathbf{X} \in [0, \pi] \quad \text{and} \quad f_1(\mathbf{X}) \quad f_2(\mathbf{X}) \quad \text{and} \quad \mathbf{X} \in [0, \pi] \quad \mathbf{X}$$

$$0 = \frac{b}{a} =$$

$$f(x) = \max \left| x^2 - 1.2 \ln x \right|_{\square} g(x) = \max \left\{ x + \ln x - x^2 + \left(x^2 - \frac{1}{2} \right) x + 2x^2 + 4x \right\}.$$

$$\prod_{x \in A} h(x) = f(x) - 3\left(x - \frac{1}{2}\right)(x - 1)^2$$

$13 \textcolor{red}{\square} 2011 \cdot \textcolor{red}{\square} \textcolor{blue}{\square} \textcolor{blue}{\square} \textcolor{blue}{\square} \textcolor{blue}{\square} \textcolor{blue}{\square}$

$$= \int_{\mathbb{R}^{d}} \int_{\mathbb{R}^{d}} \left[\left(a, b \right) \right] db = \int_{\mathbb{R}^{d}} \left[\left(a, b \right) \right] db$$

$$\prod_{0 \in \{1, 0\}} f_1(x) = \min\{f(t) \mid a \le t \le x\} (x \in [a, b])$$

$$f_2(x) = \max\{f(t) \mid a \le t \le x\}(x \in [a,b])$$

$$00000000 \ \textit{k}_0000 \ f_2(\textit{x}) - \ f_1(\textit{x}) \leq \textit{k}(\textit{X}-\textit{a}) \ 00000 \ \textit{X} \in [\textit{a},\textit{b}] \ 00000000$$

(I)
$$_{\square\square\square} f(x) = x^2 - 3x^2, x \in [0, 3]_{\square\square} f(x) = 0$$



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